

What is claimed is:

1. A bearing supporting structure, comprising a bearing sleeve  
provided on a motor stator unit for supporting a bearing  
5 therein and a coil therearound;

said bearing sleeve being provided on an inner wall surface  
near an outer end thereof with radially inward projected  
stoppers, and split at an inner end to provide a plurality  
10 of spaced segments, each of which being provided at a lower  
inner surface with a radially inward projected flange; and

said bearing being moved through said flanges into said  
bearing sleeve and stably positioned in said bearing sleeve  
15 between said stoppers and said flanges, so that said bearing  
may be quickly and easily removed from said bearing sleeve  
via said segments without the need of moving said coil  
externally mounted around said bearing sleeve.

- 20 2. The bearing supporting structure as claimed in claim 1,  
wherein said stoppers and said flanges together define  
between them a vertical space corresponding to an overall  
height of said bearing.

- 25 3. A bearing supporting structure, comprising a bearing sleeve  
provided on a motor stator unit for supporting a bearing  
unit therein and a coil therearound;

said bearing sleeve being provided on an inner wall surface near an outer end thereof with radially inward projected stoppers; and split at an inner end to provide a plurality of spaced segments, each of which being provided at a lower inner surface with a radially inward projected flange; and

said bearing unit including a plurality of bearings spaced by bearing spacers; said bearings and bearing spacers of said bearing unit being alternately moved through said flanges into said bearing sleeve and stably positioned in said bearing sleeve between said stoppers and said flanges, so that said bearing unit may be quickly and easily removed from said bearing sleeve via said segments without the need of moving said coil externally mounted around said bearing sleeve.

4. The bearing supporting structure as claimed in claim 3, wherein said stoppers and said flanges together define between them a vertical space corresponding to an overall height of said bearing unit.